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Modified epoxy resin prodn. - by reacting **epihalohydrin epoxy resin with polymerised fatty acid and then with isocyanate cpd.**

Modified epoxy resin is prep'd. by reacting (A) polyvalent phenol, **epihalohydrin type epoxy resin with (B) a polymerised fatty acid, reacting the prod. with (C) an isocyanate gp. contg. cpd., or reacting (A) with (C) and reacting the prod. with (B) in above 2 equiv. of epoxy gp. to 1 equiv. of carboxyl gp. and in above 4 equiv. of OH gp. to 1 equiv. of isocyanate gp.**

ADVANTAGE
The modified epoxy resin has excellent flexibility and impact resistance.

DETAILS

(A) is the epoxy resin prep'd. by the reaction of e.g. bisphenol A, bisphenol F, catechol or resorcinol with e.g. epichlorohydrin. Bisphenol A - epichlorohydrin epoxy resin is pref. used.

(B) is obt'd. by dimerising the unsatd. fatty acid contained in natural fat and oil (e.g. bean oil, cotton seed oil).

Prepd. (C) includes polyester polyol, isocyanate gp.-contg. urethane prepolymer. The reaction temp. is 50-300°C for the reaction of (A) with (B) and 40-150°C for the reaction of the OH gp.-contg. epoxy resin with (C). (5ppW136).

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